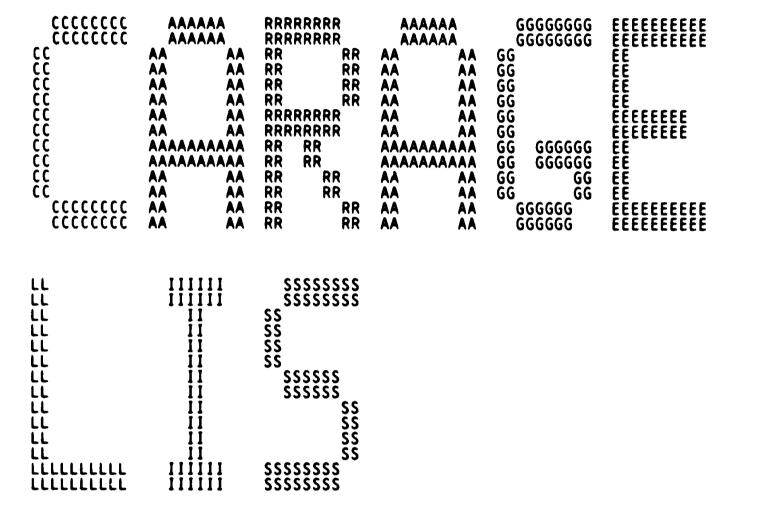
RRRRR	RRRRRRR	UUU	UUU	NNN	NNN	(00000000	FFFFFFFFFFFFF	FFFFFFFFFFFF
RRRRR	RRRRRRR	ŬŬŬ	ŬŬŬ	NNN	NNN		00000000	FFFFFFFFFFFFF	FFFFFFFFFFFF
	RRRRRRR	ŬŬŬ	ŬŬŬ	NNN	NNN		00000000	FFFFFFFFFFFF	FFFFFFFFFFFF
RRR	RRR	ŬŬŬ	ŭŭŭ	NNN	NNN		000	FFF	FFF
RRR	RRR	ŬŬŬ	UUU	NNN	NNN		000	FFF	FFF
RRR	RRR	ŬŬŬ	UUU	NNN	NNN		000	FFF	FFF
RRR	RRR								
		UUU	UUU	NNNNN			000	fff	FFF
RRR	RRR	UUU	UUU	NNNN			000	FFF	FFF
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFF
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF
RRRRR	RRRRRRR	UUU	UUU	NNN	NNN NNN	000	000	FFFFFFFFFF	FFFFFFFFFF
RRR	RRR	UUU	UUU	NNN	NNNNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNNNN	000	000	FFF	FFF
RRR	RRR	ŬŬŪ	ŬŬŬ	NNN	NNNNN		000	FFF	FFF
RRR	RRR	ŬŨŨ	ŬŬŬ	NNN	NNN		000	FFF	FFF
RRR	RRR	ŬŬŬ	ÜÜÜ	NNN	NNN		000	FFF	FFF
RRR	RRR	ŬŬŬ	บับบ	NNN	NNN	000	000	FFF	FFF
RRR	RRR	บับบับบบบบเ		NIN	NNN		00000000	FFF	FFF
RRR	RRR	UUUUUUUU		NNN	NNN		00000000	FFF	FFF
RRR	RRR								
RRR	RKK	UUUUUUUUU		NNN	NNN	·	00000000	FFF	FFF

_\$2

RLI RNO RNO RTY SAV STR STR STR STR

STR STR STR STR STR STR STR STR STR STR



CE VO

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ABSTRACT:

0035

0037 0038 0039

0040 0041

0042

Processes the .PAGE, .SKIP, .BLANK, .TEST PAGE, .BREAK, and .SPACING commands.

ENVIRONMENT: Transportable

AUTHOR: R.W.Friday CREATION DATE: May, 1978

Page

VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CARAGE.BLI;1

CARAGE V04-000	Revision History	F 13 15-Sep-1984 23:55:25 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 13:05:38 [RUNOFF.SRC]CARAGE.BLI:1 (2)
445 445 447 449 551 553 554 556 558	0047 1 0048 1 005 005 0050 1 0052 1 0053 1 004	History' KFA00006 Ken Alden 05-Aug-1983 Added handling for .PAGE NOW (plus). RER00005 Ron Randall 17-Mar-1983 For DSRPLUS: In [h_skip], added code to test for negative skip in topnote. KFA00004 Ken Alden 07-Mar-1983 Global edit of all modules. Updated module names, idents, copyright dates. Changed require files to BLISS library.

C E VO

```
G 13
15-Sep-1984 23:55:25
14-Sep-1984 13:05:38
CARAGE
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CARAGE.BLI;1
V04-000
                         Module Level Declarations
                         0058
0059
                                  1 %SBTTL 'Module Level Declarations'
     61
     62
                                      ! INCLUDE FILES:
                         0060
                         0061
                      0062
0063
0194
U 0195
U 0196
0197
0198
0199
     64
65
                                   1 LIBRARY 'NXPORT: XPORT';
                                                                                                        ! XPORT Library ! RUNOFF variant definitions
                                   1 REQUIRE 'REQ:RNODEF':
     1 %IF DSRPLUS %THEN
1 LIBRARY 'REQ:DPLLIB';
                                                                                                       ! DSRPLUS BLISS Library
                                      XELSE
                                      LIBRARY 'REQ:DSRLIB';
                                                                                                       ! DSR BLISS Library
                                      XF I
                         0199
0201
0202
0203
0204
0205
0206
0207
                                         EXTERNAL REFERENCES:
                                   1 EXTERNAL
                                                                : FNCT_DEFINITION,
: FIXED_STRING,
: REF FIXED_STRING,
: NUMPRM_DEFINE,
: PHAN_DEFINITION,
: SCA_DEFINITION;
                                             FNCT
      78
79
                                             IRA
                                             MRA
      80
                                             NUMPRM
                         0209
      81
                                             PHAN
     82
83
                         0210
                                             SCA
                         0211
                     U 0212
U 0213
U 0214
U 0215
U 0216
U 0217
0218
0219
      84
                                      XIF DSRPLUS XTHEN
     85
                                      EXTERNAL
      86
                                             TOPNOT
                                                                : TN_DEFINITION;
     87
                                      EXTERNAL LITERAL
     88
     89
                                             RNFIIT;
     90
91
92
93
94
95
                     0220
0221
02223
02224
02224
02227
02233
02233
02233
02233
02233
02233
02233
02233
                                      EXTERNAL LITERAL RNFIFT,
                                             RNFINM,
                                             RNFMNL:
     96
97
                                      EXTERNAL ROUTINE
     98
99
                                             erma.
                                             qcpage,
    100
                                             gcpos,
    101
                                             geskip,
    102
                                     TIF DERPLUS THEN
    104
                                             newpag,
    105
                                     XF I
    106
107
                                             tpffit,
                                             tpfsiz;
    108
```

•••••••••

CE VO

(3)

```
H 13
CARAGE
VO4-000
                                                                                 15-Sep-1984 23:55:25
14-Sep-1984 13:05:38
                                                                                                                 VAX-11 Bliss-32 V4.0-742
                    Module Level Declarations
                                                                                                                 [RUNOFF.SRC]CARAGE.BLI:1
   110
                              GLOBAL ROUTINE carage (handler_code) : NOVALUE =
                    023390
02234423456782222244489
   112
                               ! FUNCTIONAL DESCRIPTION:
   114
   115
                                         See the ABSTRACT, above.
   116
                                 FORMAL PARAMETERS:
   118
   119
                                         handler_code - Indicates which command is to be processed.
   1201123456712890113311331133
                                 IMPLICIT INPUTS:
                    0250
0251
                                         numprm - Expected to contain a number, as processed by GETNUM.
                                 IMPLICIT OUTPUTS:
                                                             None
                                 ROUTINE VALUE:
                    0255
                                 COMPLETION CODES:
                                                             None
                    0257
                                SIDE EFFECTS:
                                                             None
                    0258
                    0259
                    0260
                                   BEGIN
                    0261
                                   ! Some commands take a number.
IF (.HANDLER_CODE NEQ H_BREAK) AND
(.HANDLER_CODE NEQ H_PAGE)
                    0262
   136
137
                    0263
                    0264
   138
139
                 U 0265
                              XIF DSRPLUS XTHEN
                 U 0267
                                        (.HANDLER_CODE NEG H_PAGE_NOW)
   140
   141
                    0268
                              XFI
   142
                    0269
0270
                                   THEN
   144
                    0271
                                         IF NOT .NUM_RESULT
                    0272
0273
   145
                                          Ignore command if number was bad.
   146
   147
                    0274
                                              RETURN:
                    0275
   148
                    0276
   149
                                   SELECTONE .HANDLER_CODE OF
   150
                    0277
                                        SET
   151
                    0278
   152
153
154
155
                    0279
                                         [H_BLANK, H_SKIP] :
                    0280
0281
                                              BEGIN
                    0282
0283
                                              IF .NUM_LENGTH EQL O
   156
157
                    0284
                                                   NUM_VALUE = 1;
                                                                                            ! Default if no parameter.
   158
                    0285
                    0286
0287
                                             IF .HANDLER_CODE EQL H SKIP Commands .SKIP and .BLANK mean the same thing, except that .SKIP means ".SPACING"
   159
   160
                    0288
   161
   162
163
                    0289
                                                blank lines, whereas .BLANK means exactly
                    0290
0291
0292
0293
                                                as many blank lines as specified.
   164
   165
                                                   NUM_VALUE = .NUM_VALUE * .SCA_SPACING;
   166
```

```
15-Sep-1984 23:55:25
14-Sep-1984 13:05:38
CARAGE
                                                                                                          VAX-11 Bliss-32 V4.0-742 
ERUNOFF.SRCJCARAGE.BLI;1
V04-000
                   Module Level Declarations
                   0294
0295
0296
0297
                                                .NUM_VALUE LSS 0
   168
   169
                                                BEGIN
   170
                U 0298
U 0299
U 0300
   171
                            XIF DSRPLUS XTHEN
   172
                                                   .SKIP with negative value is illegal in a topnote.
   174
                 Ŭ 0301
                Ŭ 0302
U 0303
   175
                                                     .TN_COLLECTING
   176
                                                THEN
   177
                 Ū 0304
                                                     BEGIN
   178
                 Ŭ 0305
                                                     ERMA (RNFIIT, FALSE);
   179
                 Ũ
                   0306
                                                     RETURN:
   180
                   0307
                                                     END:
   181
                   0308
                            XF I
   182
183
                   0309
                   0310
   184
                   0311
                                                   .SKIP with negative value is illegal in a footnote.
                   0312
0313
   185
   186
                                                IF .FNCT_COLLECTING
   187
                   0314
                                                THEN
   188
                   0315
                                                     BEGIN
                                                     ERMA (RNFIFT, FALSE);
   189
                   0316
   190
                   0317
                                                     RETURN:
   191
                   0318
                                                     END;
   192
                   0319
                   0320
                                                IF ABS (.NUM_VALUE) GEQ .PHAN_LLINES
   194
                   0321
                                                THEN
   195
                   0322
                                                       User said something like .SKIP -9999.
   196
197
                                                     BEGIN
                   0324
                                                     ERMA (RNFINM, FALSE);
   198
                                                     RETURN;
   1990123045678990112314567890123
                   0326
0327
                                                     END:
                   0328
0329
0330
                                                ! It's a valid .SKIP/.BLANK with a negative count.
                                                GCPOS (.NUM_VALUE);
                                                RETURN:
                   0331
                                                END:
                   0332
                                            ! Generate code for the conditional skip.
                   0334
                                           GCSKIP (.NUM_VALUE);
                   0335
                                           END:
                   0336
0337
0338
                                      [H_BREAK] :
                                             Everything associated with .BREAK is contained in
                   0339
                                             the tables, that are interpreted by DOCM.
                   0340
                   0341
0342
0343
0344
0345
                                      [H_PAGE] :
                                             Generate code for the conditional page.
                                           GCPAGE ();
                U 0346
U 0347
U 0348
                            XIF DSRPLUS XTHEN
                                      [H_PAGE_NOW] :
                                                      page NOW.
                U 0349
                                           BEGIN
                U 0350
                                           IF .fnct_collecting
                                                                                      ! Don't start a new page if
```

```
13
CARAGE
                                                                                           15-Sep-1984 23:55:25
14-Sep-1984 13:05:38
                                                                                                                            VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CARAGE.BLI:1
V04-000
                       Module Level Declarations
                   U 0351
U 0352
U 0353
U 0354
U 0355
    THEN
                                                                                                        footnotes are being collected, since footnotes all belong on
                                                        RETURN:
                                                                                                        one page.
                                                   phan_top_page = false;
newpag ();
                                                                                                        Start another one, even if we're at the beginning of a
                   U 0356
U 0357
                                                   END:
                                                                                                        new page.
                      0358
0359
                                 XF I
                      0360
                                             [H_SPACING] :
                      0361
0362
0363
                                                   BEGIN
                                                   IF .NUM_LENGTH EQL O
                      0364
                                                   ! No number provided.
                      0365
                                                   THEN
                      0366
0367
                                                        BEGIN
                                                        ERMA (RNFMNL, FALSE);
                      0368
                                                        RETURN:
                      0369
                                                        END:
                      0370
                      0371
                                                   IF (.NUM_VALUE LEQ 0) OR (.NUM_VALUE GTR 5)
                      0372
0373
                                                     Number not between 0 and 5.
                      0374
                                                   THEN
                      0375
                                                        BEGIN
                      0376
                                                        ERMA (RNFINM, FALSE);
                      0377
                                                        RETURN;
                      0378
                                                        END:
    252
253
254
255
                      0379
                      0380
                                                   SCA_SPACING = .NUM_VALUE;
                      0381
                      0382
0383
    256
257
258
259
                                             [H_TEST_PAGE] : BEGIN
                      0384
0385
                      0384
                                                   IF .NUM_LENGTH EQL O
                      0387
    260
                                                   ! No number provided.
    261
                      0388
                                                   THEN
                      0389
    262
                                                        BEGIN
    263
                      0390
                                                        ĒRMĀ (RNFMNL, FALSE);
                      0391
    264
                                                        RETURN:
                      0392
0393
    265
                                                        END:
    266
                      0394
0395
    267
                                                   IF .NUM_VALUE LEQ 0
    268
                                                     Negative number not allowed.
                      0396
0397
    269
270
271
272
273
274
275
                                                   THEN'
                                                        BEGIN
                                                        ERMA (RNFINM, FALSE);
                      0398
                      0399
                                                        RETURN:
                      0400
                                                        END:
                      0401
                      0402
                                                     Add count of pending footnote lines, if any, to the given test-page value.
    276
277
278
279
                                                   ! Generate code for a test page.
GTPC (.NUM_VALUE + TPFSIZ (TPFFIT ()));
                      0404
                      0405
                      0406
    280
                      0407
```

VO

CARAGE V04-000	Module Level Declar		K 13 15-Sep- 14-Sep-	-1984 23:55:25 VA -1984 13:05:38 [R	X-11 Bliss-32 V4.0-742 UNOFF.SRCJCARAGE.BLI;1	Page 7 (4)
: 281 : 282 : 283	0408 2 TES 0409 2 0410 1 END:) ,		!End of CARAGE		
				.TITLE CARAGE .IDENT \V04-000	\	
				.EXTRN FNCT, IREXTRN PHAN, SCEXTRN RNFINM, .EXTRN GCPAGE, .EXTRN GTPC, TP	A, MRA, NUMPRM A, RNFIFT RNFMNL, ERMA GCPOS, GCSKIP FFIT, TPFSIZ	
				.PSECT \$CODE\$,N		
		53 0000000 52 0		MOVAB NUMPRM+4	Save R2,R3 , R3 CODE R2	; 0237 ; 0263
•		ÓB	AC DO 00009 52 D1 0000D 0E 13 00010 52 D1 00012 05 13 00019 C A3 E8 0001B	MOVL HANDLER_CMPL R2, #11 BEQL 1\$	CODE, RE	. 0203
	000000	N7 8F	52 01 00012 05 13 00019	CMPL R2, #167 BEQL 1\$		0264
		01 F	A3 E8 0001B 04 0001F	BLBS NUMPRM, RET	1\$	0271
		0A	52 01 00020 1 \$: 09 13 00023	CMPL R2, #10 BEQL 2\$		0279
	0000008		52 D1 00025 52 12 0002C	BNEQ 8\$		
		0	3 A3 D5 0002E 2\$: 03 12 00031	TSTL NUMPRM+1		0282
	000000	63 IC 8F	01 D0 00033 52 D1 00036 3\$:	MOVL #1, NUMPI CMPL R2, #188	RM+4	: 0284 : 0286
		63 0000000	63 D5 00046 4 \$:	TSTL NUMPRM+4	, NUMPRM+4	0292 0294
		OA 0000000	ZC 18 00048	BGEQ 7\$ BLBC FNCT+20,	5\$	0313
		0000000	OG EF E9 0004A 7E D4 00051 OG 8F DD 00053 7F 11 00059	BLBC FNCT+20, CLRL -(SP) PUSHL #RNFIFT		: 0316
		50	7F 11 00059 63 D0 0005B 5\$:	BRB 14\$ MOVL NUMPRM+4	, RO	0320
	000000	50 100 FF	06 8F DD 00053 7F 11 00059 63 DO 0005B 5\$: 03 18 0005E 50 CE 00060 50 D1 00063 6\$: 66 18 0006A 63 DD 0006C 01 FB 0006E 04 00075 63 DD 00076 7\$:	BGEQ 6\$ MNEGL RO, RO CMPL RO, aPHAI BGEQ 13\$ PUSHL NUMPRM+4 CALLS #1, GCPOS	N+4	
			66 18 0006A 63 DD 0006C	BGEQ 13\$ PUSHL NUMPRM+4	•	0329
	0000000	OG EF	01 FB 0006E 04 00075	CALLS W1, GCPOS	S	:
	0000000	OG EF	63 DD 00076 7\$: 01 FB 00078	PUSHL NUMPRM+4 CALLS #1, GCSK	IP	0296 0334
		0B	04 0007F 52 01 00080 8\$:	RET CMPL R2, #11		0276 0337
	000000	7 8F	01 FB 00078 04 0007F 52 D1 00080 8\$: 78 13 00083 52 D1 00085 08 12 0008C 00 FB 0008E	CMPL R2. #167		0342
	0000000	OG EF	08 12 00080 00 FB 0008E	BNEQ 9\$ CALLS #0, GCPA	GE	0344

V0

CARAGE V04-000	L 13 15-Sep-1984 23:55:25 VAX-11 Bliss-32 V4.0-742 Module Level Declarations 14-Sep-1984 13:05:38 [RUNOFF.SRC]CARAGE.BLI;1	Page 8 (4)
: Routine Si	000000BD 8F 52 D1 00096 9\$: CMPL R2, #189 8 A3 D5 0009F 15TL NUMPRM+12 000000000 8F D0 000A6 PUSHL #RNFMNL 50 63 D0 000A6 PUSHL #RNFMNL 8 B8 4 12 00067 PUSHL #RNFMNL 00000000 FF 63 D0 000B8 MOVL NUMPRM+4, R0 15F 14 14 000B6 BGTR 13\$ 0000000 FF 63 D0 000B8 MOVL NUMPRM+4, asca+124 0000000 BF 52 D1 00001 12\$: CMPL R2, #203 08 A3 D5 00000 12\$: CMPL R2, #203 08 A3 D5 00000 12\$: CMPL R2, #203 08 A3 D5 00000 12\$: CMPL R2, #205 00 000000 FF 0 10 0000 14\$: CMPL R2, #205 00 000000 FF 0 10 0000 14\$: CMPL R2, #205 00 000000 FF 0 10 0000 14\$: CMPL R2, #205 00 000000 FF 0 10 0000 14\$: CMPL R2, #205 00 0000000 FF 0 10 0000 14\$: CMPL R2, #205 00 0000000 FF 0 10 00000 14\$: CMPL R2, #205 00 0000000 FF 0 00000 14\$: CMPL R2, #205 00 0000000 FF 0 00000 14\$: CMPL R2, #205 00 0000000 FF 0 00000 14\$: CMPL R3, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 000000 14\$: CMPL R4, ** 00 0000000 FF 0 00000 14\$: CMPL R4, ** 00 0000000 FF 0 000000 14\$: CMPL R4, ** 00 0000000 FF 0 000000 14\$: CMPL R4, ** 00 0000000 FF 0 00000000 14\$: CMPL R4, ** 00 0000000 FF 0 0000000 14\$: CMPL R4, ** 00 0000000 FF 0 0000000 14\$: CMPL R4, ** 00 0000000 FF 0 000000000 14\$: CMPL R4, ** 00 0000000 FF 0 00000000 14\$: CMPL R4, ** 00 00000000 FF 0 00000000 14\$: CMPL R4, ** 00 00000000 FF 0 00000000 14\$: CMPL R4, ** 00 00000000 FF 0 000000000 14\$: CMPL R4, ** 00 000000000 FF 0 0000000000 14\$: CMPL R4, ** 00 000000000 FF 0 00000000000000000	0360 0363 0367 0371 0372 0380 0276 0383 0386 0394 0398
: 284 : 285 : 286	0411 1 0412 1 END !End of module 0413 0 ELUDOM	
Name \$CODE\$	PSECT SUMMARY Bytes Attributes 254 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	

AQ CF

Library Statistics

file

------ Symbols ----- Pages Processing
Total Loaded Percent Mapped Time

M 13 15-Sep-1984 23:55:25 14-Sep-1984 13:05:38 CARAGE V04-000 VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CARAGE.BLI;1 Page Module Level Declarations \$255\$DUA28:[SYSLIB]XPORT.L32:1 [\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32:1 590 1248 20 252 86 00:00.1 COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: CARAGE/OBJ=OBJ\$: CARAGE MSRC\$: CARAGE/UPDATE=(ENH\$: CARAGE)

; Size: 254 code ; Run Time: 00:06. ; Elapsed Time: 00:16. ; Lines/CPU Min: 4123 ; Lexemes/CPU-Min: 13617 ; Memory Used: 73 pages ; Compilation Complete 254 code + 0 data bytes 00:06.0 00:16.5 4123

VO CL

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